

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-002942**Date Inspected:** 06-Nov-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Changxing Dao, Shanghai**Quality Control Contact:** Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** Sub-Assemblies (OBG) and Office.**Bid Item:** 77, 78, 79**Lot No:****Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Kenneth W. Cason Jr. arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections is to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Sub-Assemblies (OBG)

L10W OBG External Assembled Traveler Rail Brackets (9 Sets), NOI Number 4877: In preparation for finish coat installation of Interfine 979 Polysiloxane, the surfaces of L10W OBG External Assembled Traveler Rail Brackets were tested in accordance with SSPC-SP 1 (Surface Cleanliness). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

L10E OBG Internal Floor from P.P88 to P.P90 and P.P91 to P.P92, NOI Number 4878: In accordance with project specifications and SSPC-PA 2, Dry Film Thickness (DFT) readings were recorded by ABF and ZPMC Quality Assurance/Control representatives for L10E OBG Internal Floor from P.P88 to P.P90 and P.P91 to P.P92. No discrepancies noted.

Traveler Rails (20 Each), NOI Number 4879: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 and Interzinc 52 undercoat on Traveler Rails (20 Each) were tested in accordance with SSPC-SP 1 (Surface Cleanliness), SSPC-PA 2 Dry Film Thickness (DFT). ABF and ZPMC Quality Assurance/Control representatives noted discrepancies including low DFT readings, dirty substrate surface and

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wet Interzinc 52 undercoat repair areas. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding with process to the next check point.

BK4A-002 and BK4A-011 Bike Path Assemblies, NOI Number 4881: In accordance with project specifications and SSPC-SP 1, ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on BK4A-002 and BK4A-011 Bike Path Assemblies in preparation for Interzinc 22 installation. ABF and ZPMC Quality Assurance/Control representatives noted discrepancies which require additional grinding and re-blasting on substrate. Bresle Method to assess the level of soluble salts using a patch, distilled water and a conductivity gauge in accordance ISO 11127-6 and ISO 11127-7 were satisfactory with readings x2 (13.7 and 21.4 $\mu\text{s}/\text{cm}$) and x4 surface profile readings indicated surface profiles in the 72 to 84 μm range. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding with process to the next check point.

SB86E, 88E, 90E, 92E, 92E, 86W, 88W, 90W, 92W and 94W Suspender Brackets, NOI Number 4882: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on external surfaces were tested in accordance with SSPC-SP 1 (Surface Cleanliness), SSPC-PA 2 Dry Film Thickness (DFT) and ASTM D4752 (MEK Resistance of Ethyl Silicate (Inorganic) Zinc-Rich Primers by Solvent Rub). All test results were acceptable and within desired limits. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

SPB4-27 Service Platform H Bar, NOI Number 4885A: In preparation for undercoat installation, and in accordance with project specifications and SSPC-SP 1, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on SPB4-27 Service Platform H Bar. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point. BK4A-002 and BK4A-011 Bike Path Assemblies, NOI Number 4887: In preparation for undercoat installation and in accordance with project specifications and SSPC-SP 1, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on BK4A-002 and BK4A-011 Bike Path Assemblies. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Office

Attend to report writing and photo documentation.

Note: Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Summary of Conversations:

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact , who represents the Office of Structural Materials for your project.

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Inspected By: Cason,Kenneth

Quality Assurance Inspector

Reviewed By: Miller,Mark

QA Reviewer